ADAPTED FROM USDL FORM NO LSB-00S-4-MAY 1969



CASHELLO1

SHELL OIL COMPANY SHELL CHEMICAL COMPANY SHELL DEVELOPMENT COMPANY SHELL PIPE LINE CORPORATION

HAZARD RATING

2

MSDS 5200-1

2 SOLVENT

MATERIAL SAFETY DATA SHEET

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Nealth Act of 1970 and shall not bused for any other purpose. Use or dissemination of all or any part of this information for any other purpose may result in a violation of law or day stitute grounds for legal action.

	-	SECTIO	N I				
MANUFACTURER'S NAME Shell Chemical Company EMERGENCY TELEPHONE NO. 713-473-9461							
Appress (Number, Street, City, State, and ZIB Code). One Shell Plaza, P.O. Box 2463, HG	oust	on, Texa	as 77001				
Ethylehe Chycol Monobutyl Ether;	Įthe			Butÿï	OXITOL(R	Glycol Eth	ler
CHEMICAL FAMILY Glycol Ether	1		FORMULA C	H1402			
SECTION	11 1	HAZARDO	OUS INGRE		rs*	LC:	
COMPOSITION	%	SPECIES	ORAL	LD50	DERMAL	CONCENTRATION HOU	
		1,12			Jena-c		
Thirden Classel Monobutyl Ethon	100	Rat	1.48 to 2.50 g/k				
Ethylene Glycol Monobutyl Ether	100	Rabbit	2.70 8/2	-R O	.45 to .56 g/kg		
			1.2 g/kg		· DO 8/ KR	700 ppn	1 7
				} 		1 24	
					· · · · · · · · · · · · · · · · · · ·		
			1				
		 	 				
			<u> </u>	-		·	
			<u> </u>				
					·		
SECT	ION	III PHY	SICAL DA		(4-0=1)	<u> </u>	
BOILING POINT ('F)	4-	340			TY (H ₂ O=1)		0.90
VAPOR PRESSURE (mmHg)@ 680F	0.6		PERCENT BY VOLUM	E (%)			0
VAPOR DENSITY (AIR=1)	4.1		EVAPORAT (<u>n</u> -BuA	2 =	, I E = 1)		0.07
SOLUBILITY IN WATER		100%	S				
APPEARANCE AND ODOR Clear, colorless	lic	juid; mi	ld odor.	. jan	o, ta		
SECTION IV FI	RE /	AND EXP	LOSION H	AZARI	DATA		

	SECTION IV	FIRE AND E	KPLOSION HAZ	ARD DATA		
FLASH POINT (Method used)	·		FLAMMAE	ILE LIMITS	Lei	Ü٠Ì
138°F	TCC	4 2			-	**
EXTINGUISHING MEDIA FOAM, CO2, dry chem	icals, water	fog or ste	am.			
special fire fighting procedu Exclude air. Do no	f ^{es} use stream	of water.	Do not enter	confined fire	space wi	thout
proper protective e	quipment inc	luding NIOS	H approved se	elf contained b	reathing	apparat
UNUSUAL FIRE AND EXPLOSION H						

SECTION V HEALTH HAZARD DATA OSHA TWA = 50 PPM (skin) EFFECTS OF OVEREXPOSURE Moderate to severe eye irritant; slightly irritating to skin. Vapor can cause damage to liver, kidneys, and blood. The same effects can be produced by absorption of the liquid through the skin. EMERGENCY AND FIRST AID PROCEDURES Skin-remove liquid with soap and water. Eyes-flush with water at least 15 minutes.

			350	HON VI	REACTIVITY DAT	TA		
STABILITY	UNSTA	BLE			ns to avoid open flame.			
	STABL	Ε	X		-			
INCOMPATIBILITY	(Materials	to avoid	Strong o	xidizing	agents. Alumi	num.	P49-40-	
HAZARDOUS DECO Dissolves a	Luminum	from	surfaces	which ar	e scratched or	heated.	Gives off	hydrogen.
HAZARDOUS		MAY OC	U R		CONDITIONS TO AVO	010		
POLYMERIZATION		WILL NO	TOCCUR	X				

Ingestion-give large amounts of water or milk to drink, induce vomiting by touching back of throat with finger. Obtain medical attention immediately. Inhalation-remove victim to fresh air. Use artificial respiration if required. Obtain medical attention

SECTION VII SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Immediately eliminate any open flame. Provide adequate ventilation. Protect against
storm drain or water supply contamination. Notify authorities if any exposure to the
general public or environment is threatened.
Small spills-collect on absorbent materials. Sweep up and drum off for disposal.
Large spills-pump into drums or vacuum truck for ultimate disposal. Dispose of waste
by controlled burning.

	SECTION VIII SPECIAL PRO	
RESPIRATORY PROTECT NIOSH-approved	organic cartridge respirator,	canister mask or air pack as required.
VENTILATION	LOCAL EXHAUST Recommended	SPECIAL
	MECHANICAL (General) Recommended	OTHER
As required to	prevent skin contact	EYE PROTECTION Chemical safety goggles to guard against splashing.
As required to	prevent skin contact	

SECTION IX SPECIAL PREGAUTIONS
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Avoid all open flame. Avoid splash-filling. Store in
cool, well-ventilated locations. Avoid use of aluminum equipment.
ATTENTION: PRODUCT CONTAINER HAZARDOUS WHEN EMPTIED. Since emptied container retain
product residues (vapor or liquid), all labeled hazard precautions must be observed.

***************************************	Product Safety and Compliance
	Oil and Chemical Products
	Shell Oil Company
	Annil 1078 .

THRESHOLD LIMIT VALUE

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. VENDOR ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDEE OR THIRD PERSONS PROXIMATELY CAUSED BY THE MATERIAL IF REASONABLE SAFETY PROCEDURES ARE NOT ADHERED TO AS STIPULATED IN THE DATA SHEET. ADDITIONALLY, VENDOR ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDEE OR THIRD PERSONS PROXIMATELY CAUSED BY ABNORMAL USE OF THE MATERIAL EVEN IF REASONABLE SAFETY PROCEDURES ARE FOLLOWED. FURTHER-